

SEARCH

CAMERON 10/682288 10/07/04 Page 68

Claim 6

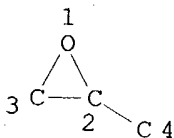
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FILE COVERS 1907 - 7 Oct 2004 VOL 141 ISS 15
FILE LAST UPDATED: 6 Oct 2004 (20041006/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE

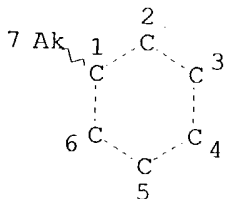
L16 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE
L17 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M8 C AT 7

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L18 STR

O—Ak—OH
1 2 3

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS X3 C AT 2

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 3

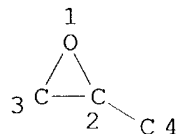
STEREO ATTRIBUTES: NONE
L19 SCR 2043
L20 SCR 1838
L21 SCR 9
L22 2022 SEA FILE=REGISTRY SSS FUL L17 AND (L16 OR L18) AND L19 AND L20
AND L21
L23 STR

O—Ak—OH
1 2 3

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E3 C AT 2

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 3

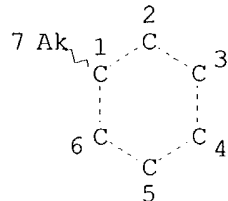
STEREO ATTRIBUTES: NONE
L25 1000 SEA FILE=REGISTRY SUB=L22 SSS FUL L17 AND (L16 OR L23)
L26 (8)SEA FILE=REGISTRY ABB=ON (25154-52-3/BI OR 25322-68-3/BI OR
30347-69-4/BI OR 34143-74-3/BI OR 67416-73-3/BI OR 7632-00-0/BI
OR 9002-89-5/BI OR 9003-39-8/BI)
L27 (1)SEA FILE=REGISTRY ABB=ON L26 AND NONYL
L28 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 4

STEREO ATTRIBUTES: NONE
L29 STR



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M8 C AT 7

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L30 STR 3

O—Ak—OH
1 2 3

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS X3 C AT 2

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 3

STEREO ATTRIBUTES: NONE

L31 SCR 2043
L32 SCR 1838
L33 SCR 9
L34 (2022)SEA FILE=REGISTRY SSS FUL L29 AND (L28 OR L30) AND L31 AND L32 AND L33
L35 (14720)SEA FILE=HCAPLUS ABB=ON L34
L36 (2530)SEA FILE=HCAPLUS ABB=ON L35(L)?SURFACTANT?
L37 (128)SEA FILE=HCAPLUS ABB=ON L36 AND (FOAM? OR BUBBL?)
L38 (57)SEA FILE=HCAPLUS ABB=ON L37 AND (SURFACE? OR SUBSTRATE?)
L39 (1)SEA FILE=REGISTRY ABB=ON POLYVINYLPIRROLIDONE/CN
L40 (0)SEA FILE=REGISTRY ABB=ON POLYVINYL ALCOHOL/CN
L41 (1)SEA FILE=REGISTRY ABB=ON L26 AND ETHENOL
L42 (1)SEA FILE=REGISTRY ABB=ON "POLYETHYLENE OXIDE"/CN
L43 (141556)SEA FILE=HCAPLUS ABB=ON L39 OR L41 OR L42
L44 (2)SEA FILE=HCAPLUS ABB=ON L38 AND L43
L45 (256)SEA FILE=HCAPLUS ABB=ON L36 AND L43
L46 (16)SEA FILE=HCAPLUS ABB=ON L36 AND HYDROPHIL?(3A)?POLYMER?
L47 (2)SEA FILE=HCAPLUS ABB=ON (L45 OR L46) AND (SUFACE?(2A)TENSION? OR AGGREGAT?(3A)CONC?)
L48 (14)SEA FILE=HCAPLUS ABB=ON (L45 OR L46) AND (SURFACE?(2A)TENSION? OR AGGREGAT?(3A)CONC?)
L49 (0)SEA FILE=HCAPLUS ABB=ON L38 AND HYDROPHIL?(3A)?POLYMER?
L50 (0)SEA FILE=HCAPLUS ABB=ON L37 AND HYDROPHIL?(3A)?POLYMER?
L51 (6)SEA FILE=HCAPLUS ABB=ON L37 AND BLOW?(2A)AGENT?
L52 (5)SEA FILE=HCAPLUS ABB=ON L38 AND INK?
L53 (25)SEA FILE=HCAPLUS ABB=ON L44 OR L47 OR (L48 OR L49 OR L50 OR L51 OR L52)
L54 (703)SEA FILE=HCAPLUS ABB=ON L27/D
L55 (55)SEA FILE=HCAPLUS ABB=ON L54(L)?SURFACT?
L56 (4)SEA FILE=HCAPLUS ABB=ON L55 AND (SURFACE?(2A)TENSION? OR AGGREGAT?(3A)CONC?)
L57 (16)SEA FILE=HCAPLUS ABB=ON L55 AND (L43 OR HYDROPHIL?(4A)?POLYMER ?)
L58 (1)SEA FILE=HCAPLUS ABB=ON L57 AND (INK? OR BLOW?(3A)AGENT?)
L59 (0)SEA FILE=HCAPLUS ABB=ON L40 AND (SUBSTRATE? OR SURFACE?)
L60 (4)SEA FILE=HCAPLUS ABB=ON L57 AND (SUBSTRATE? OR SURFACE?)

exactly 3 C

*1000 polymers
from structure 2 and
(1 or 3)*

L61 (3)SEA FILE=HCAPLUS ABB=ON L57 AND (FOAM? OR BUBL?)
 L62 (8)SEA FILE=HCAPLUS ABB=ON L56 OR (L58 OR L59 OR L60 OR L61)
 L63 33 SEA FILE=HCAPLUS ABB=ON L62 OR L53
 L64 585 SEA FILE=HCAPLUS ABB=ON L25 — 585 CA ref
 L65 56 SEA FILE=HCAPLUS ABB=ON L64 (L) SURFACT? 56 e surfact
 L66 56 SEA FILE=HCAPLUS ABB=ON (L63 OR L65) NOT L63
 L68 17 SEA FILE=HCAPLUS ABB=ON L66 AND (BUBBL? OR FOAM? OR TENSION
 OR HYDROPHIL? OR BLOW?)
 L69 4 SEA FILE=HCAPLUS ABB=ON L66 AND INK?
 L70 21 SEA FILE=HCAPLUS ABB=ON L68 OR L69

=> D L70 1-21 BIB ABS IND HITSTR

L70 ANSWER 1 OF 21 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:352213 HCAPLUS

DN 138:376438

TI Pigment dispersion containing surfactant, manufacture of the dispersion, pigment **ink** for jet printing, and method for printing using the **ink**

IN Nakamura, Masaki; Asatake, Atsushi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 15 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2003128955	A2	20030508	JP 2001-329208	20011026
PRAI	JP 2001-329208		20011026		

AB The dispersion contains pigment particles, which have surfactants adsorbed on the surface, in a medium. The pigment particles are characterized by that difference between D90 and D10 is $\leq 25 \mu\text{m}$ (D90 and D10 are diameter corresponding to integral calculus of particle size distribution 0.9 and 0.1, resp.). The dispersion with another characterization related to polydispersity index (PDI) is also claimed. The dispersion is manufactured by mixing of a solution of the pigment particles and a pigment-insol. medium optionally containing a solvent. The jet printing **ink** contains the dispersion and an image is formed by jet printing of the **ink** on a porous receptor. The dispersion of the pigment with small primary particle diameter provides the **ink** showing storage stability and smooth extrusion from a nozzle without stopping. The **ink** provides printed image with high gloss and improved light resistance.

IC ICM C09B067-46

ICS B41J002-01; B41M005-00; C09B067-00; C09D011-00; C09D017-00

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

Section cross-reference(s): 41, 42, 43, 46

ST pigment dispersion surfactant jet printing **ink**; small primary particle size pigment **ink**; polydispersity index pigment dispersion printing **ink**; storage stability pigment **ink** jet printing; smooth extrusion jet printing **ink** nozzle

IT Disperse systems

Ink-jet printing

Light-resistant materials

Pigments, nonbiological

Polydispersity

(dispersion of pigments with small primary particle diameter for jet